



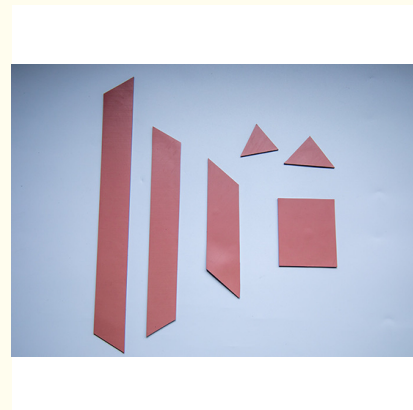
Silicone Free Thermal Conductivity Pad 2.0 W/MK Flame Retardant

Our Product Introduction

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Basic Information

- Place of Origin: China
- Brand Name: zhonglei
- Minimum Order Quantity: 100 m²
- Packaging Details: carton



Product Specification

- Adhesion Strength: Strong
- Density: 2 G / Cbm
- Hardness: 50 ~80Shore A
- Thermal Conductivity: 2 W/mK
- Thickness: 0.5~5mm
- Operating Temperature Range: -40°C To 125°C
- Flame Retardant: Yes
- Chemical Resistance: Excellent
- Highlight: **Silicone Free Thermal Conductivity Pad ,
Thermal Conductivity Pad Flame Retardant**

Product Description:

In the realm of electronic and mechanical engineering, the advent of a high-efficiency Thermal Conduction Material is pivotal for the innovation and reliability of various devices. We are proud to present a product that has been engineered to meet the stringent demands of heat management applications, ensuring both performance and durability across a wide spectrum of industries. Our thermally conductive compound is a state-of-the-art solution designed to facilitate heat dissipation and improve the operational lifespan of your equipment.

The operating temperature range of our Thermal Conductivity Material stretches from a frigid -40°C to an impressive 200°C, encompassing the needs of most industrial and commercial applications. This vast temperature spectrum ensures that our product can withstand and perform under extreme conditions without degradation of its intrinsic properties. Such resilience makes it an ideal choice for applications subject to fluctuating thermal environments, such as automotive, aerospace, and consumer electronics, which demand reliable performance over a broad range of temperatures.

Our thermally conductive compound boasts a density of 1.73 g/cbm, striking an optimal balance between lightness and robustness. This carefully engineered density ensures that the material can be applied without adding significant weight to the device, which is critical in applications where weight management is essential, such as in aerospace or portable electronics. Moreover, the density has been meticulously calibrated to achieve superior thermal conduction without compromising material integrity.

Electrical insulation is often a critical factor in the selection of Thermal Conduction Material, and our thermally conductive compound excels in this regard with a dielectric strength of 4.5 KV/mm. This impressive dielectric strength ensures that our material not only conducts heat efficiently but also provides an effective electrical insulation barrier. This characteristic is especially important in preventing electrical discharges and maintaining the safety and functionality of electronic components that operate under high-voltage conditions.

The aesthetic appeal of our Thermal Conductivity Material is complemented by its practical grey color, which provides a professional and subtle appearance when integrated into various devices. The grey hue has been carefully selected to minimize the visual impact of the material, allowing it to blend seamlessly into the design of electronic components and systems without drawing attention away from the overall aesthetics of the final product.

Tensile strength is a measure of material's resistance to being pulled apart and is a vital attribute in the durability and reliability of Thermal Conduction Material. Our thermally conductive compound exhibits an impressive tensile strength of 48 psi, which indicates its ability to withstand mechanical stress and maintain its form under tension. This property is crucial for maintaining the integrity of the thermal interface over time, particularly in applications where the material may be subject to mechanical vibrations or repeated thermal cycling.

In conclusion, our thermally conductive compound represents a remarkable synergy of thermal efficiency and material engineering. With its wide operating temperature range, optimal density, high dielectric strength, discreet color, and substantial tensile strength, it stands as a superior choice for professionals seeking a dependable Thermal Conduction Material. Whether for intricate electronic devices, heavy-duty machinery, or cutting-edge aerospace applications, our product delivers on the promise of exceptional thermal management and reliability.

Features:

- Product Name: Thermally Conductive Material
- Tensile Strength: 29PSI
- Chemical Resistance: Excellent
- Adhesion Strength: Strong
- Operating Temperature Range: -40°C to 125°C
- Also known as: Thermal Conduction Material
- Also referred to as: Heat Conductive Compound
- Another term: Heat Conductive Substance

Technical Parameters:

Parameter	Specification
Density	2 G / Cbm
Thermal Conductivity	1.5 W/mK
Chemical Resistance	Excellent
Hardness	50 Shore A
Flame Retardant	Yes
Color	Pink
Tensile Strength	29 Psi
Application Method	Dispensing Or Brushing
Operating Temperature Range	-40°C To 125°C
Thickness	0.5~5MM

Applications:

Brand Name: zhonglei
Place of Origin: China
Tensile Strength: 29 Psi
Chemical Resistance: Excellent
Color: Pink
Adhesion Strength: Strong
Flame Retardant: Yes

The zhonglei Thermally Conductive Compound is an engineered solution designed to provide efficient thermal management in a wide range of applications. This compound, originating from China, has been formulated to offer a tensile strength of 48 Psi, ensuring durability under mechanical stress. Its excellent chemical resistance makes it suitable for use in harsh chemical environments, maintaining performance without degradation.

With its distinctive grey color, the zhonglei Thermal Conduction Material is not just functional but also visually identifiable, simplifying the application process in complex assemblies. The product's strong adhesion strength is particularly advantageous, enabling it to bond effectively to a variety of surfaces, which is critical for effective heat dissipation. Moreover, its flame-retardant properties ensure that it contributes to overall product safety by reducing the risk of fire in electronic assemblies and other applications.

Application occasions and scenarios for the zhonglei Thermally Conductive Compound range from consumer electronics, where it is used to manage heat in devices like smartphones, tablets, and laptops, to industrial settings, where it facilitates thermal management in machinery, automotive components, and LED lighting systems. The thermal conduction material is also crucial in the aerospace industry, offering thermal control for sensitive instrumentation and on-board systems.

Additionally, the zhonglei Thermally Conductive Compound is ideal for use in power supply units, heat sinks, and thermal modules, ensuring components remain within their optimal temperature range. The compound's properties are particularly beneficial for the cooling of CPUs, GPUs, and other high-performance semiconductors that generate significant amounts of heat during operation. In renewable energy applications such as solar panels and wind turbines, the compound aids in maintaining efficiency by reducing thermal resistance. Given its versatility, zhonglei's thermal conduction material is a strategic choice for manufacturers and engineers seeking reliable thermal management solutions. Its combination of mechanical strength, chemical resistance, strong adhesion, and flame retardance makes it an indispensable component in any heat-sensitive application.

Customization:

Welcome to zhonglei, where we offer premium **Thermal Conduction Material** solutions. Our products are meticulously crafted to meet your specific needs, ensuring efficient heat management for a variety of applications.

Originating from **China**, our thermally conductive materials are designed with quality in mind. The use of **Silicone** as the base material provides excellent thermal properties and durability.

Our **Thermal Conductive Putty** is known for its **Strong** adhesion strength, making it a reliable choice for creating a secure thermal connection between components. With a density of **2 G / Cbm**, it offers a robust structure for effective heat dissipation.

The versatility of our product is evident in its color — a sleek **Pink** that can easily blend with various component designs without compromising on aesthetic appeal.

Moreover, our **Heat Conductive Compound** is engineered to perform within a wide operating temperature range of **-40°C to 125°C**, ensuring stability and performance even under extreme conditions.

Choose zhonglei for your thermal management needs and experience the perfect blend of functionality and customization in our thermally conductive material offerings.

Support and Services:

Our Thermally Conductive Material products are designed to provide effective heat dissipation solutions for a variety of applications. To ensure that you get the most out of our products, we offer comprehensive technical support and services tailored to meet your specific needs.

Product Selection Assistance: Our technical support team can help you choose the right thermally conductive material for your application, taking into consideration factors such as thermal conductivity requirements, operating temperature ranges, material compatibility, and other relevant specifications.

Application Guidance: We provide detailed instructions and best practices for applying and using our thermally conductive materials to achieve optimal performance. This includes advice on surface preparation, application techniques, and curing processes where applicable.

Troubleshooting: If you encounter any challenges while using our products, our expert support team is available to assist you with troubleshooting. We will work with you to diagnose the issue and provide solutions to resolve any problems quickly and efficiently.

Custom Solutions: For specialized applications, we offer custom formulation services to develop thermally conductive materials that meet unique requirements. Our team will collaborate with you to create a product that fits your specific application needs.

Training and Education: We provide training sessions and educational materials to help your team understand the properties and uses of thermally conductive materials. This ensures that you are fully equipped to handle and apply our products effectively.

Quality Assurance: Our commitment to quality means that all of our thermally conductive materials undergo rigorous testing to ensure they meet high-performance standards. Our support services include guidance on quality control and material testing procedures.

By utilizing our technical support and services, you can maximize the efficiency and reliability of our Thermally Conductive Material products in your applications. We are dedicated to providing you with the assistance and expertise you need to succeed.

Packing and Shipping:

Our Thermally Conductive Material is carefully packaged to ensure the integrity and quality of the product upon delivery. Each item is encased in anti-static packaging to prevent any electrical interference and is cushioned with shock-absorbing materials to protect against impact during transit. The packaging is also designed to provide a barrier against moisture and environmental contaminants, preserving the thermal conductivity properties of the material.

For shipping, the product is secured within a sturdy, corrugated cardboard box that is appropriately sized to prevent unnecessary movement. We use reliable shipping carriers with full tracking capabilities to ensure your order arrives in a timely and secure manner. Please inspect the package upon arrival and report any damage immediately to our customer service team for assistance.

FAQ:

Q1: What types of thermally conductive materials does zhonglei offer?

A1: Zhonglei offers a variety of thermally conductive materials, including thermal pads, thermal paste, thermal adhesive, and thermal interface materials (TIMs) designed for various applications in electronics cooling, LED lighting, automotive electronics, and more, to

efficiently transfer heat away from critical components.

Q2: Can zhonglei's thermally conductive materials be customized for specific applications?

A2: Yes, zhonglei offers customization options for their thermally conductive materials to meet specific size, thickness, conductivity, and application requirements. Customization allows for optimal performance and fit for unique design challenges.

Q3: How do I choose the right zhonglei thermally conductive material for my application?

A3: Choosing the right zhonglei thermally conductive material depends on several factors including the thermal conductivity required, the operating temperature range, the mechanical properties needed (such as hardness or compressibility), the application method, and the budget. It's best to consult with zhonglei technical support to select the most suitable material for your application.

Q4: What is the thermal conductivity range for zhonglei's thermally conductive materials?

A4: Zhonglei's thermally conductive materials come in a range of thermal conductivities to suit various heat dissipation requirements. The exact range can vary depending on the specific product line and application, so please refer to the product datasheet or contact zhonglei's customer service for detailed information on thermal conductivity values.

Q5: Are zhonglei's thermally conductive materials safe to use and environmentally friendly?

A5: Zhonglei is committed to providing products that are safe for users and the environment. Their thermally conductive materials are made with consideration for environmental impact and user safety, complying with relevant regulations. However, it's important to follow all safety guidelines provided with the product for handling and disposal.



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